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OIPE IAP12 NOV 17 2005 PATENT & TRADEMARK OFFICE

PTO/SB/21 (09-04)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/678,946
Filing Date	October 2, 2003
First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

Total Number of Pages in This Submission

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):

SB/08
233 references
Return postcard

Remarks: The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature	Patrick M. Boucher		
Printed name	Patrick M. Boucher		
Date	November 15, 2005	Reg. No.	44,037

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Signature	Janet L. Newmaker		
Typed or printed name	Janet L. Newmaker	Date	November 15, 2005

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November 15, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Janet L. Newmaker
Janet L. Newmaker

PATENT
Attorney Docket No.: 20174C-010310US
Client Reference Nos.: CIT 3778
and C158.210.US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Jong Wook Hong et al.

Application No.: 10/678,946

Filed: October 2, 2003

For: Microfluidic Nucleic Acid Analysis

Customer No.: 20350

Confirmation No.: 7287

Examiner: Young J. Kim

Art Unit: 1637

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.97 AND 1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the non-US references (in compliance with the requirements of 1287 OG 163) are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicants believe that no fee is required for submission of this statement. If a fee is required, however, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: November 15, 2005

Patrick M. Boucher
Reg. No. 44,037

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60628725 v1

OIPE IAP72 NOV 17 2005 PATENT & TRADEMARK OFFICE

PTO/SB/08A (08-03)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 19

Complete if Known	
Application Number	10/678,946
Filing Date	October 2, 2003
First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-2,656,508	10-20-1953	Coulter	
	A2	US-3,560,754	02-02-1971	Kamentsky	
	A3	US-3,570,515	03-16-1971	Kinner	
	A4	US-3,747,628	07-24-1973	Holster et al.	
	A5	US-4,046,159	09-06-1977	Pegourie	
	A6	US-4,119,368	10-10-1978	Yamakazi	
	A7	US-4,153,855	05-08-1979	Feingold	
	A8	US-4,245,673	01-20-1981	Bouteille et al.	
	A9	US-4,434,704	03-06-1984	Surjaatmadja	
	A10	US-4,581,624	04-08-1986	O'Connor	
	A11	US-4,585,209	04-29-1986	Aine et al.	
	A12	US-4,675,300	06-23-1987	Zare et al.	
	A13	US-4,786,165	11-22-1988	Yamamoto et al.	
	A14	US-4,898,582	02-06-1990	Faste	
	A15	US-4,908,112	03-13-1990	Pace	
	A16	US-4,963,498	10-16-1990	Hillman et al.	
	A17	US-4,992,312	02-12-1991	Frisch	
	A18	US-5,032,381	07-16-1991	Bronstein et al.	
	A19	US-5,085,562	02-04-1992	Van Lintel	
	A20	US-5,088,515	02-18-1992	Kamen	
	A21	US-5,096,388	03-17-1992	Weinberg	
	A22	US-5,126,022	06-30-1992	Soane et al.	
	A23	US-5,126,115	06-30-1992	Fujita et al.	
	A24	US-5,140,161	08-18-1992	Hillman et al.	
	A25	US-5,164,558	11-17-1992	Huff et al.	
	A26	US-5,164,598	11-17-1992	Hillman et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] **Applicant's** unique citation designation number **(optional)**. [2] Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 19

Complete if Known	
Application Number	10/678,946
Filing Date	October 2, 2003
First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A27	US-5,171,132	12-15-1992	Miyazaki	
	A28	US-5,224,843	07-06-1993	Van Lintel	
	A29	US-5,259,737	11-09-1993	Kamisuki et al.	
	A30	US-5,265,327	11-30-1993	Faris et al.	
	A31	US-5,271,724	12-21-1993	van Lintel	
	A32	US-5,290,240	03-01-1994	Horres, Jr.	
	A33	US-5,336,062	08-09-1994	Richter	
	A34	US-5,346,372	09-13-1994	Naruse et al.	
	A35	US-5,375,979	12-27-1994	Trah	
	A36	US-5,376,252	12-27-1994	Ekstrom	
	A37	US-5,400,741	03-28-1995	DeTitta et al.	
	A38	US-5,423,287	06-13-1995	Usami et al.	
	A39	US-5,434,049	07-18-1995	Okuno et al.	
	A40	US-5,452,878	09-26-1995	Gravesen et al.	
	A41	US-5,486,335	01-23-1996	Wilding et al.	
	A42	US-5,498,392	03-12-1996	Wilding et al.	
	A43	US-5,500,071	03-19-1996	Kaltenbach et al.	
	A44	US-5,512,131	04-30-1996	Kumar et al.	
	A45	US-5,529,465	06-25-1996	Zengerle et al.	
	A46	US-5,558,998	09-24-1996	Hammond et al.	
	A47	US-5,580,523	12-03-1996	Bard	
	A48	US-5,589,136	12-31-1996	Northrup et al.	
	A49	US-5,593,130	01-14-1997	Hansson et al.	
	A50	US-5,632,876	05-27-1997	Zanzucchi et al.	
	A51	US-5,641,400	06-24-1997	Kaltenbach et al.	
	A52	US-5,642,015	06-24-1997	Whitehead et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] **Applicant's** unique citation designation number **(optional)**. [2] Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 19

Complete if Known	
Application Number	10/678,946
Filing Date	October 2, 2003
First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A53	US-5,659,171	08-19-1997	Young et al.	
	A54	US-5,660,370	08-26-1997	Webster	
	A55	US-5,661,222	08-26-1997	Hare	
	A56	US-5,681,024	10-28-1997	Lisec et al.	
	A57	US-5,702,618	12-30-1997	Saaski et al.	
	A58	US-5,705,018	01-06-1998	Hartley	
	A59	US-5,716,852	02-10-1998	Yager et al.	
	A60	US-5,726,751	03-10-1998	Altendorf et al.	
	A61	US-5,750,015	05-12-1998	Soane et al.	
	A62	US-5,757,482	05-26-1998	Fuchs et al.	
	A63	US-5,759,014	06-02-1998	Van Lintel	
	A64	US-5,775,371	07-07-1998	Pan et al.	
	A65	US-5,788,468	08-04-1998	Dewa et al.	
	A66	US-5,800,690	09-01-1998	Chow et al.	
	A67	US-5,833,926	11-10-1998	Wurzel et al.	
	A68	US-5,836,750	11-17-1998	Cabuz	
	A69	US-5,837,200	11-17-1998	Diessel et al.	
	A70	US-5,842,787	12-01-1998	Kopf-Sill et al.	
	A71	US-5,852,495	12-22-1998	Parce	
	A72	US-5,856,174	01-05-1999	Lipshutz et al.	
	A73	US-5,863,801	01-26-1999	Southgate et al.	
	A74	US-5,869,004	02-09-1999	Parce et al.	
	A75	US-5,875,817	03-02-1999	Carter	
	A76	US-5,876,187	03-02-1999	Afromowitz	
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	A78	US-5,904,824	05-18-1999	Oh	
	A79	US-5,932,799	08-03-1999	Moles	

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 19

Complete if Known	
Application Number	10/678,946
Filing Date	October 2, 2003
First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A80	US-5,942,443	08-24-1999	Parce et al.	
	A81	US-6,007,309	12-28-1999	Hartley	
	A82	US-6,043,080	03-28-2000	Lipshutz et al.	
	A83	US-6,117,634	09-12-2000	Langmore et al.	
	A84	US-6,123,769	09-26-2000	Sanjoh	
	A85	US-6,155,282	12-05-2000	Zachary et al.	
	A86	US-6,174,365 B1	01-16-2001	Sanjoh	
	A87	US-6,221,654 B1	04-24-2001	Quake et al.	
	A88	US-6,296,673 B1	10-02-2001	Santarsiero et al.	
	A89	US-2001/0027745 A1	10-11-2001	Weigl et al.	
	A90	US-6,345,502 B1	02-12-2002	Tai et al.	
	A91	US-2002/0037499 A1	03-28-2002	Quake et al.	
	A92	US-6,409,832 B2	06-25-2002	Weigl et al.	
	A93	US-2003/0008308 A1	01-09-2003	Enzelberger et al.	
	A94	US-6,540,895 B2	04-01-2003	Quake et al.	
	A95	US-2003/0138829 A1	07-24-2003	Unger et al.	
	A96	US 2004/0115838 A1	06-17-2004	Quake et al.	
	A97	US-6,767,706 B2	07-27-2004	Quake et al.	
	A98	US-2004/0248167 A1	12-09-2004	Quake et al.	
	A99	US-6,833,242 B2	12-21-2004	Quake et al.	
	A100	US-6,960,437	11-01-2005	Enzelberger et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] **Applicant's** unique citation designation number **(optional)**. [2] Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 19

Complete if Known	
Application Number	10/678,946
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Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

FOREIGN PATENT DOCUMENTS

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		Country Code[3]	Number[4]	Kind Code[5] (*if known*)				
	B1	EP	0 592 094	A2	04-13-1994	International Business Machines Corporation		☐
	B2	EP	0 703 364	A1	03-27-1996	Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.		☐
	B3	EP	0 706 004	A2	04-10-1996	Bayer Corporation		☐
	B4	EP	0 745 682	B1	12-04-1996	Bayer AG		☐
	B5	EP	0 778 351	B1	06-11-1997	Hitachi, Ltd.		☐
	B6	EP	0 779 436	A2	06-18-1997	Frank T. Hartley		☐
	B7	EP	0 829 360	A2	03-18-1998	Xerox Corporation		☐
	B8	EP	0 845 603	A1	06-03-1998	Xerox Corporation		☐
	B9	EP	0 999 055	A2	05-10-2000	Samsung Electronics Co., Ltd.		☐
	B10	GB	2 155 152	A	09-18-1985	Allied Corporation		☐
	B11	GB	2 264 296	A	08-25-1993	Zortech International Limited		☐
	B12	GB	2 264 496	A	09-01-1993	United States Department of Energy		☐
	B13	GB	2 308 460	A	06-25-1997	Daewoo Electronics Co., Ltd.		☐
	B14	WO	91/13338	A2	09-05-1991	Hatfield Polytechnic Higher Education Corporation		☐
	B15	WO	91/15750	A1	10-17-1991	Carrimed Ltd.		☐
	B16	WO	94/05414	A1	03-17-1994	The Regents of the University of California		☐
	B17	WO	95/33846	A1	12-14-1995	Affymax Technologies N.V.		☐

Examiner Signature		Date Considered	

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Sheet 6 of 19

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First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

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		Country Code[3]	Number[4]	Kind Code[5] (*if known*)				
	B18	WO	95/33853	A1	12-14-1995	University of Tennessee Research Corporation		☐
	B19	WO	97/02357	A1	01-23-1997	Affymetrix, Inc.		☐
	B20	WO	97/38300	A1	10-16-1997	Soane Biosciences		☐
	B21	WO	98/07069	A1	02-19-1998	The Regents Of The University Of Michigan		☐
	B22	WO	98/08931	A1	03-05-1998	BTG USA Inc.		☐
	B23	WO	99/00655	A2	01-07-1999	Immunetics		☐
	B24	WO	99/04361	A1	01-28-1999	Diversified Scientific, Inc.		☐
	B25	WO	99/17093	A1	04-08-1999	The Regents Of The University Of Michigan		☐
	B26	WO	99/52633	A1	10-21-1999	Lumenal Technologies, L.P.		☐
	B27	WO	00/00678	A1	01-06-2000	University Of Washington		☐
	B28	WO	00/43748	A1	07-27-2000	YSI Incorporated		☐
	B29	WO	00/60345	A1	10-12-2000	University Of Alabama At Birmingham Research Foundation		☐
	B30	WO	01/09595	A2	02-08-2001	Emerald Biostructures, Inc.		☐
	B31	WO	01/09595	A3	02-08-2001	Emerald Biostructures, Inc.		☐

Examiner Signature		Date Considered	

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				*Application Number*	10/678,946
				Filing Date	October 2, 2003
				First Named Inventor	Jong Wook Hong
				Art Unit	1637
(use as many sheets as necessary)				*Examiner Name*	Young J. Kim
Sheet	7	of	19	*Attorney Docket Number*	20174C-010310US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
	C1	"Biochips," Nature Biotechnology, Vol. 18, Supplement 2000, pp. IT43-IT44, 2000	
	C2	"Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998	
	C3	"Electro Microfluidic Dual In-Line Package (EMDIP)," Sandia National Laboratories, 2 pages, no date	
	C4	"Last Chance For Micromachines," The Economist Technology Quarterly, printed from website http://www.economist.com/science/displayStory.cfm?Story_ID=442930 on 1/25/2001, 8 pages, 12/7/2000	
	C5	"The Liver Chip," Technology Review, pp. 64-67, 3/2003	
	C6	AFFHOLTER, JOSEPH et al., "Engineering A Revolution," Chemistry in Britain, pp. 48-51, 4/1999	
	C7	AHN, CHONG H. et al., "Fluid Micropumps Based On Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), Amsterdam, Netherlands, pp. 408-412, 1/29-2/2/1995	
	C8	ANDERSON, ROLFE C. et al., "Microfluidic Biochemical Analysis System," Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, Chicago, Illinois, pp. 477-480, 6/16-19/1997	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 15 of 19

Complete if Known	
Application Number	10/678,946
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First Named Inventor	Jong Wook Hong
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	20174C-010310US

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Sheet	16	of	19	*Attorney Docket Number*	20174C-010310US

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